Alaska Oil and Gas Activities

Division of Oil and Gas January 17, 2002



Alaska Reserves and Production

- 36% of total U.S. oil reserves.
- 8.0 billion barrels of oil
- 17% of total U.S. gas reserves
- 35 trillion cubic feet of gas
- 20% of total U.S. oil production
- 1.04 million barrels of oil per day

The State Revenue Pie

Petroleum Revenue Sources, (FY 2001)

Total Royalties, Bonuses, Rents & Settlements:

\$1,145.9 Million

General Fund Royalties, Bonuses & Rents^{1,2}:

\$798.8 Million

Royalties to Permanent Fund &

School Fund⁴:

\$337.1 Million

Settlements to CBRF⁴:

\$10.0 Million

(Includes Royalties & Taxes)

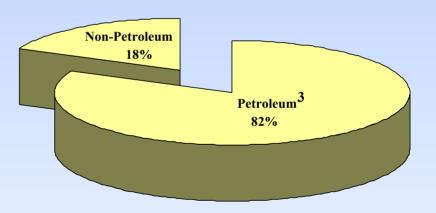
Taxes:

\$1,125.4 Million²

(Oil & Gas Property Tax + Tax Settlements + Income Tax + Severance Tax)

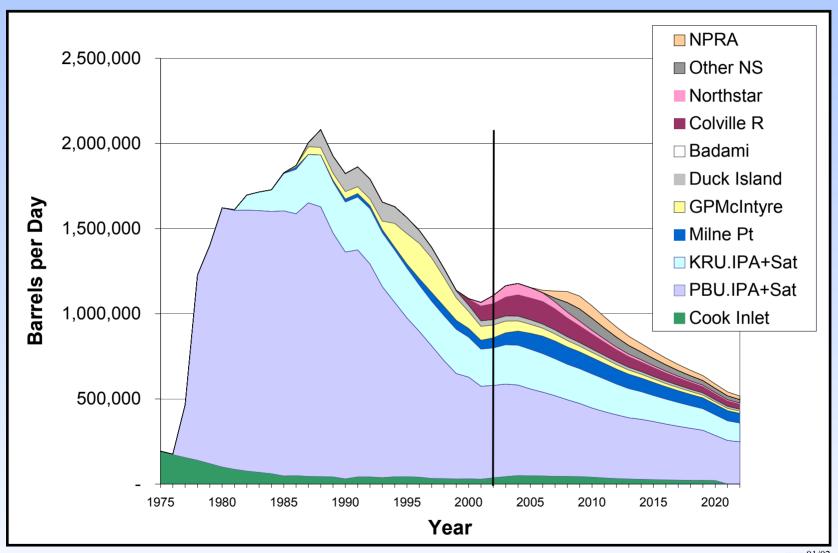
- 1 Includes Federally shared rentals
- 2 Source: pg. 23, DOR Fall 2001 Revenue Sources Book
- 3 Source: pg. 22, DOR Fall 2001 Revenue Sources Book
- 4 Source: pg. 19, DOR Fall 2001 Revenue Sources Book

FY 2001 Unrestricted Revenue



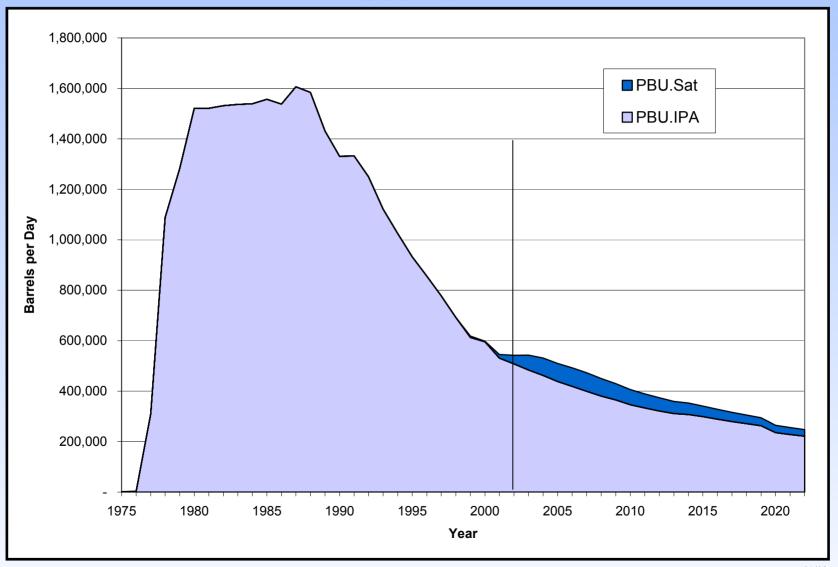
Historic and Projected Alaska Oil Production

1975 - 2022

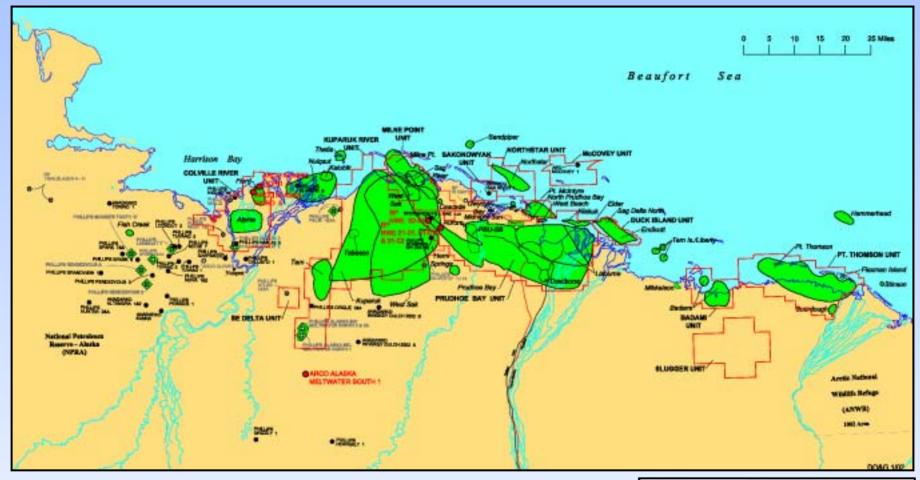


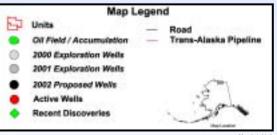
Historic and Projected Prudhoe Bay Oil Production

1975-2022

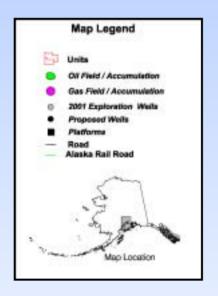


North Slope Oil & Gas Activity and Discoveries 2002





Cook Inlet Oil & Gas Activity January 2002

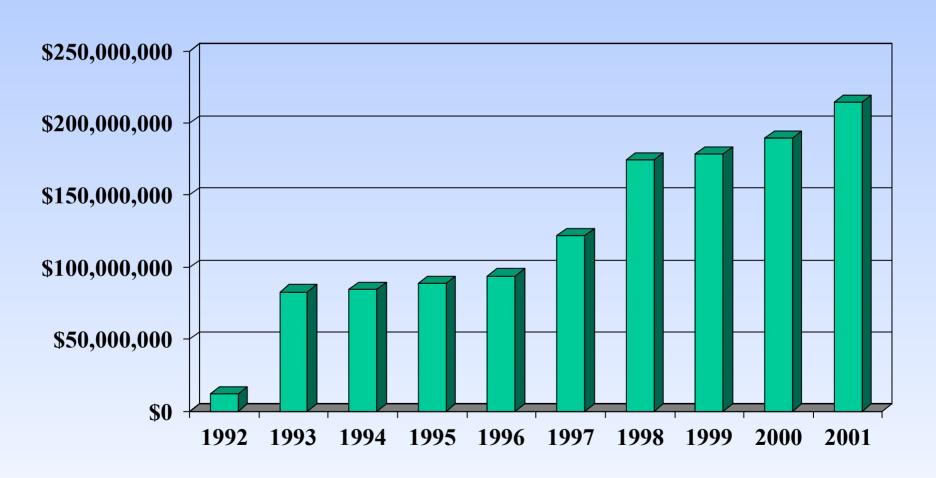




Alaska Oil and Gas Leasing Program



Cumulative Bonus Bids



2001 Areawide Lease Sales

Total Acres Leased = 1.6 Million Total Bonus Bids = \$24.5 Million

North Slope Foothills

- Area's First Lease Sale
- Largest State Sale Ever
- 8 Bidding Groups
- 978,560 Acres Leased
- \$10.7 Million in Bonus Bids

North Slope

- 16 Bidding Groups (Shell returns after 13 yrs)
- 469,760 Acres Leased
- \$7.4 Million in Bonus Bids

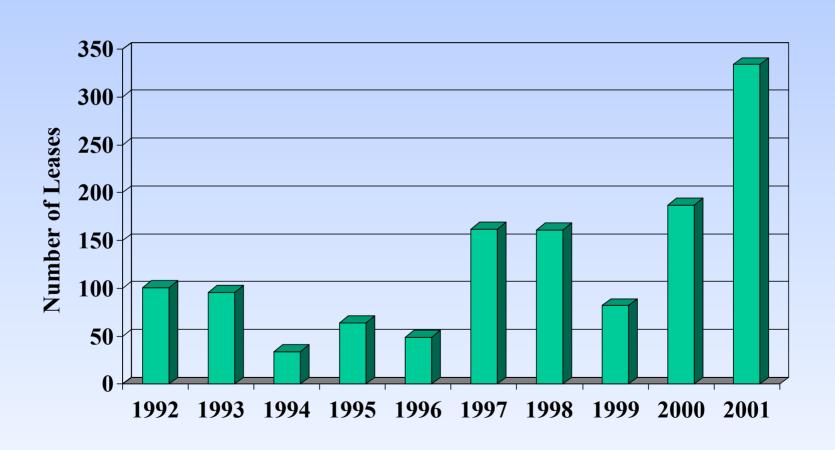
Cook Inlet*

- 6 Bidding Groups
- 102,523 Acres Leased
- \$928,085 in Bonus Bids
- (* Final Results)

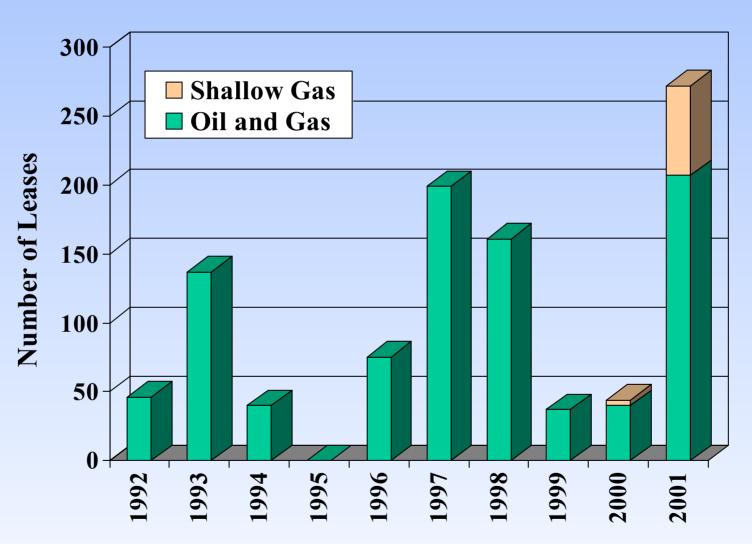
Beaufort Sea

- 7 Bidding Groups
- 60,800 Acres Leased
- \$5.4 Million in Bonus Bids

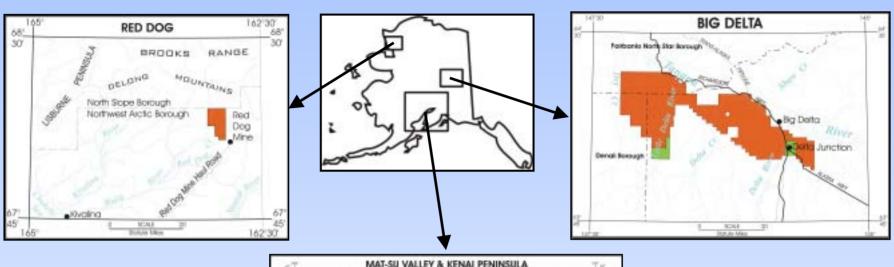
Oil and Gas Leases Sold

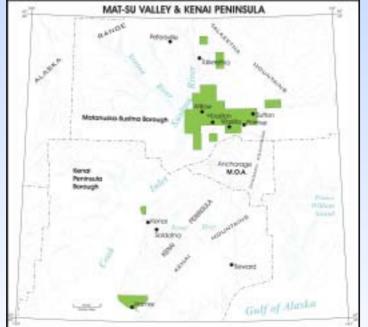


Leases Issued



Shallow Natural Gas Leasing Program

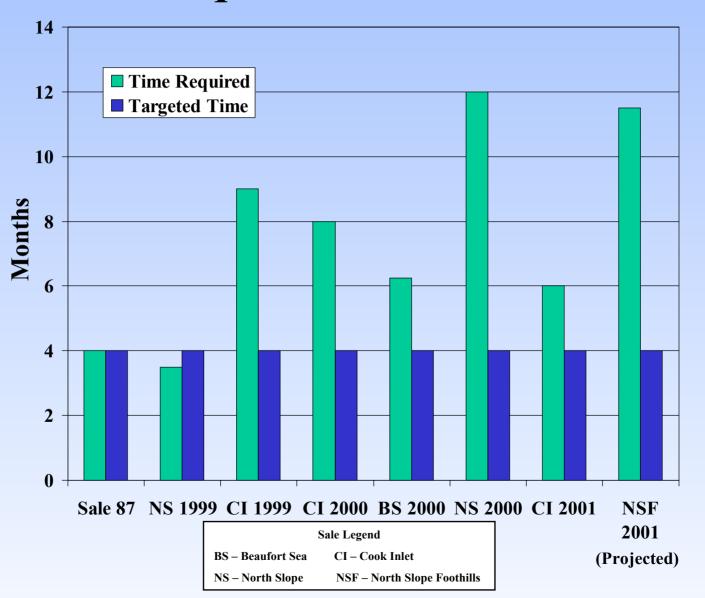




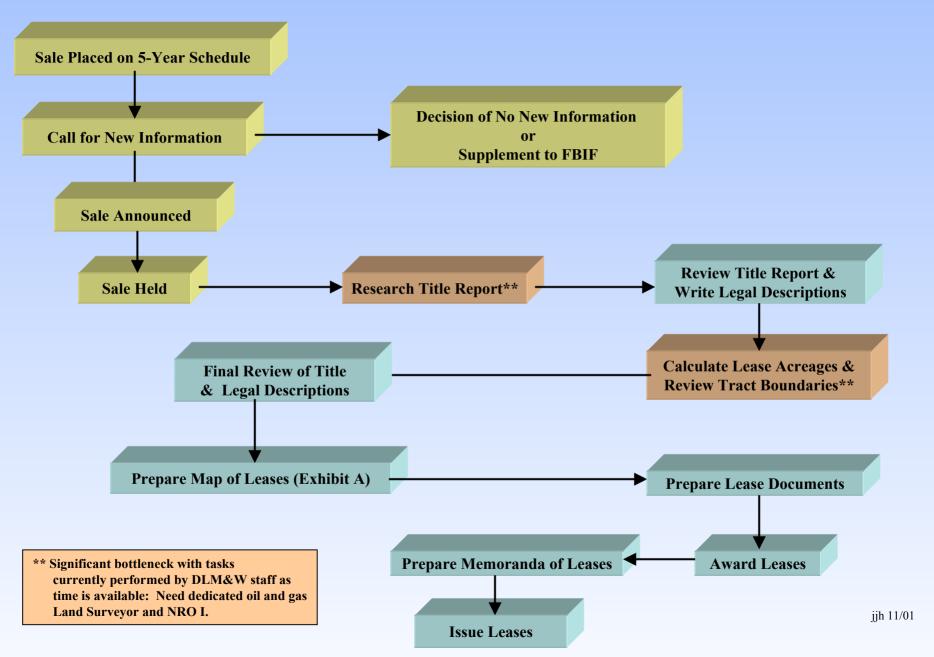


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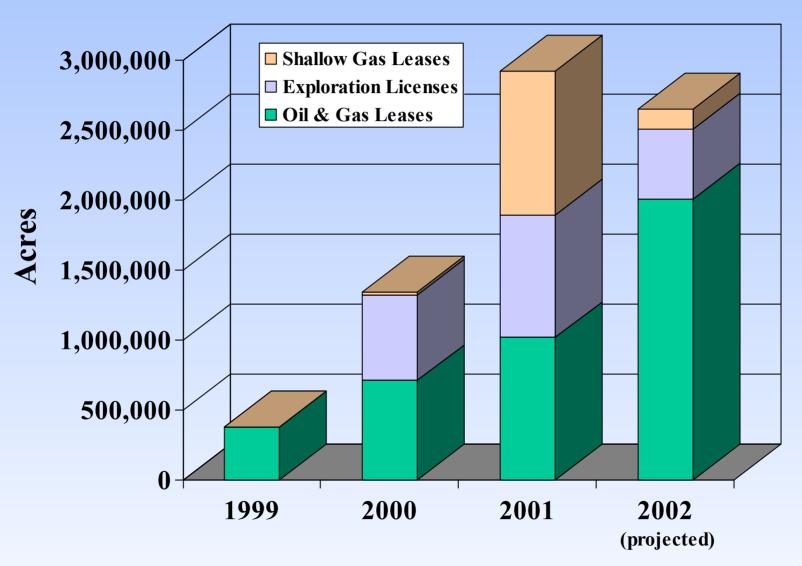
Time Required to Issue a Lease



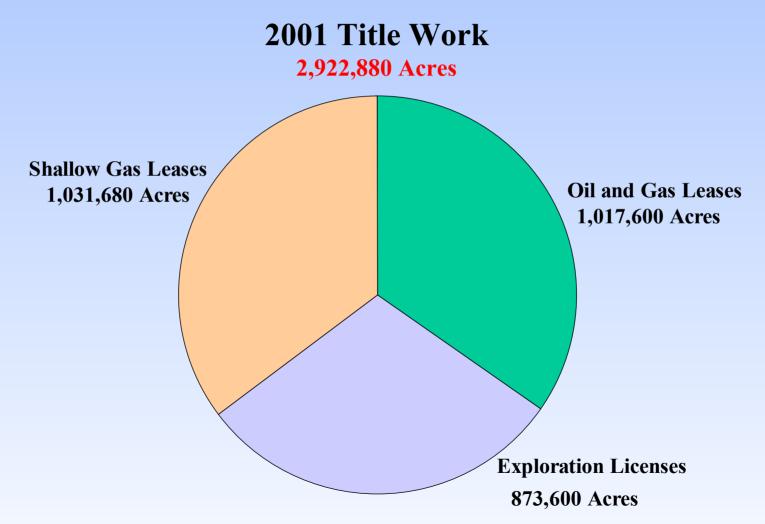
Lease Issuance Flow Chart



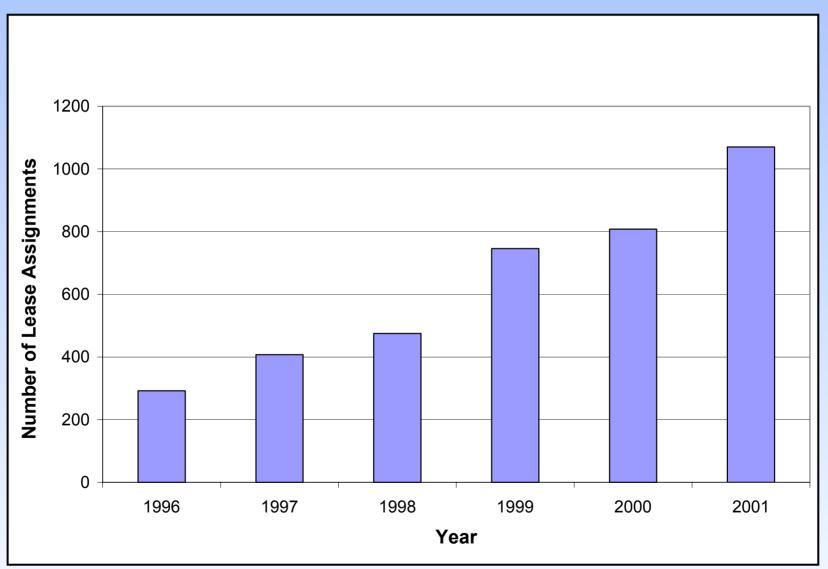
Title Work



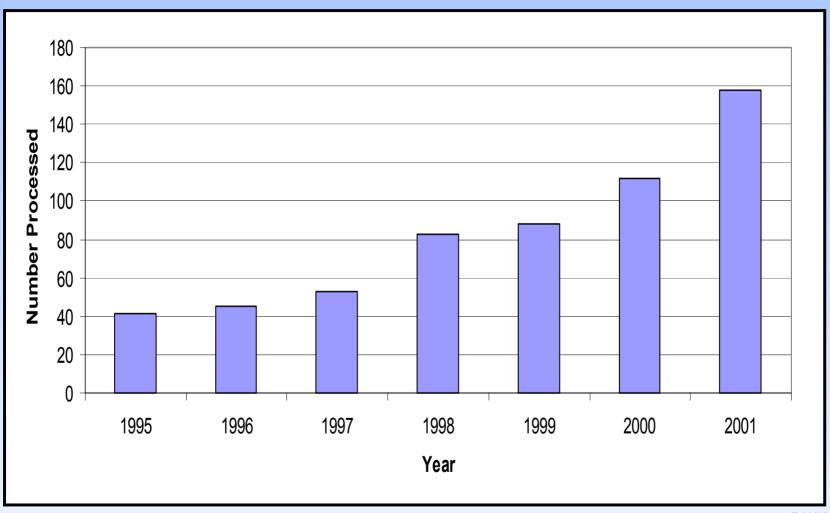
New Shallow Gas Leasing & Exploration Licensing Programs Dramatically Increase Division Workload



Lease Assignments in Alaska



Unit Actions



Actions include Units and Participating Areas formed, expanded, contracted, and terminated; Unit decisions appealed; Unit Plans of Exploration and Development reviewed and approved.

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What Are The Common Lease/Unit Administrative Actions?

Unit - Units are groups of leases; units are established to efficiently explore and develop

the leases covering one or more potential hydrocarbon accumulations

Participating That portion of leases in a unit which cover a known or estimated

Area (PA) - accumulation and to which production is allocated via a unit agreement

Units Actions: Initial Formation

Technical Evaluations - Reservoir Extent, Paying Quantities

Negotiations - Unit Agreement

Work Commitments

Expansions Contractions

Annual Plan of Exploration or Development

Participating Initial Formation

Areas:

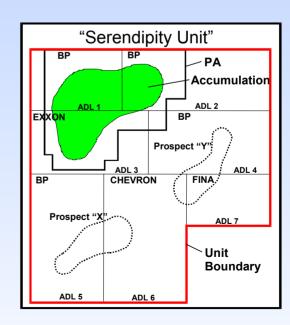
Technical Evaluations - Commerciality

Tract Allocation Factors Field Costs/Processing Costs

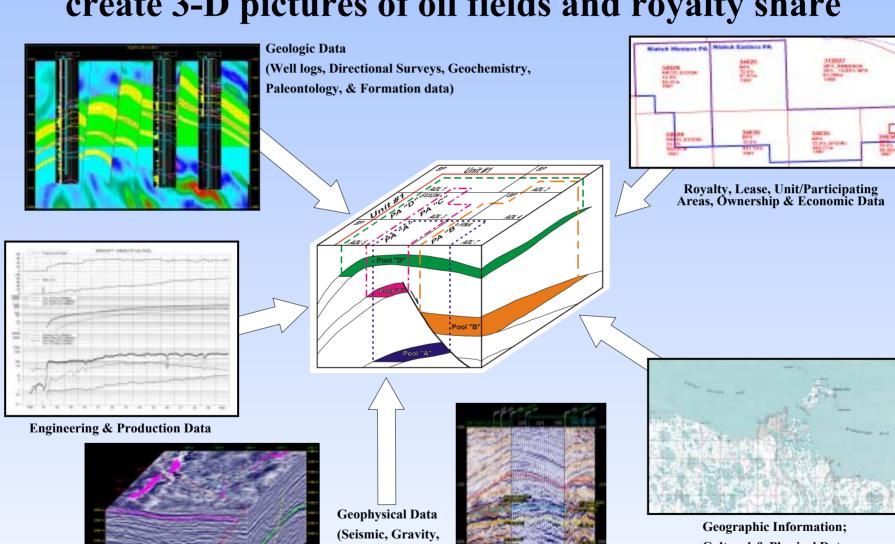
Gas and Gas Liquids Fluid Commingling Facility Sharing Well Test Allocation

Expansions Contractions

Annual Plan of Development



Different databases and data managed and merged to create 3-D pictures of oil fields and royalty share



Magnetic, Velocity,

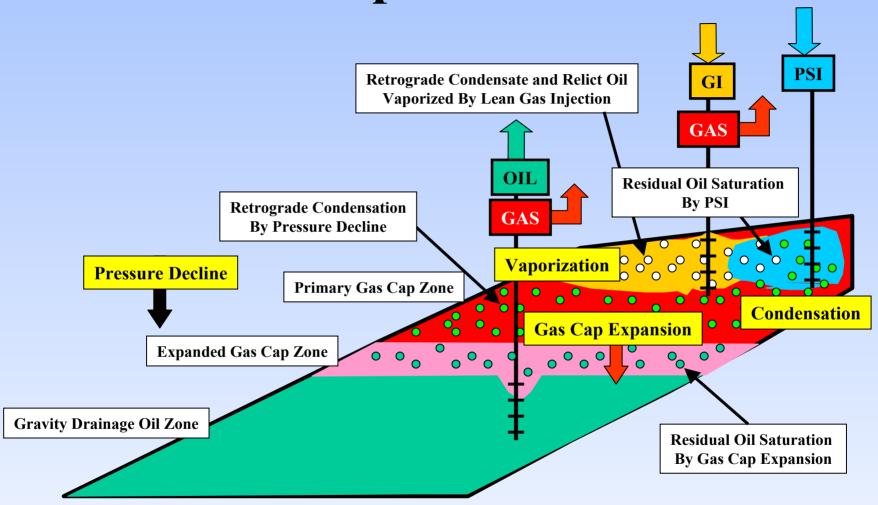
& Shothole data)

Cultural & Physical Data
Aerial & Satellite Imagery

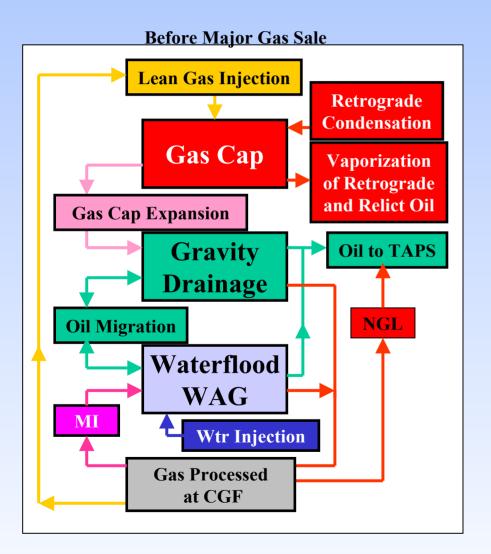
3-D Seismic

2-D Seismic

Gas Cap Mechanisms



PBU Mechanisms



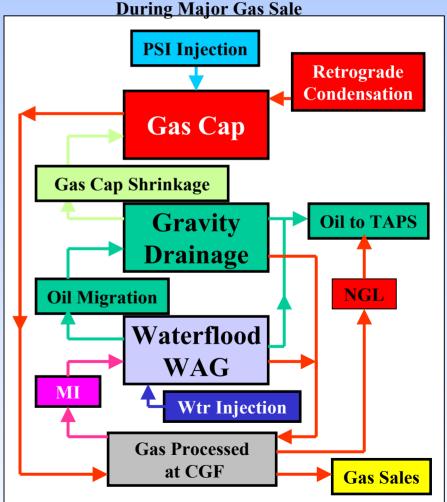
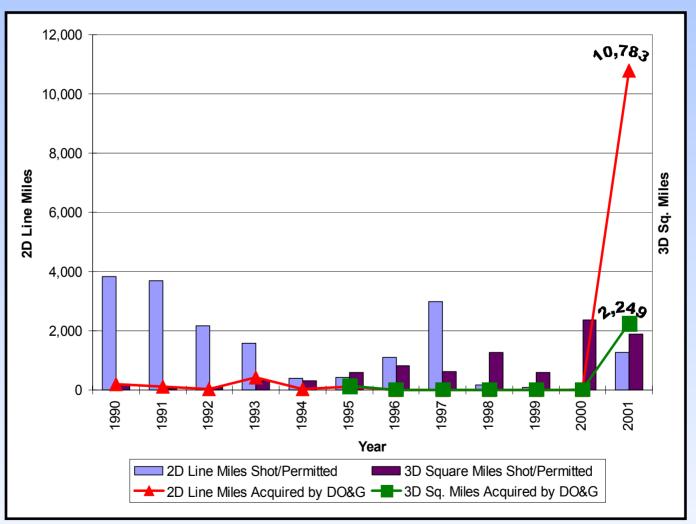


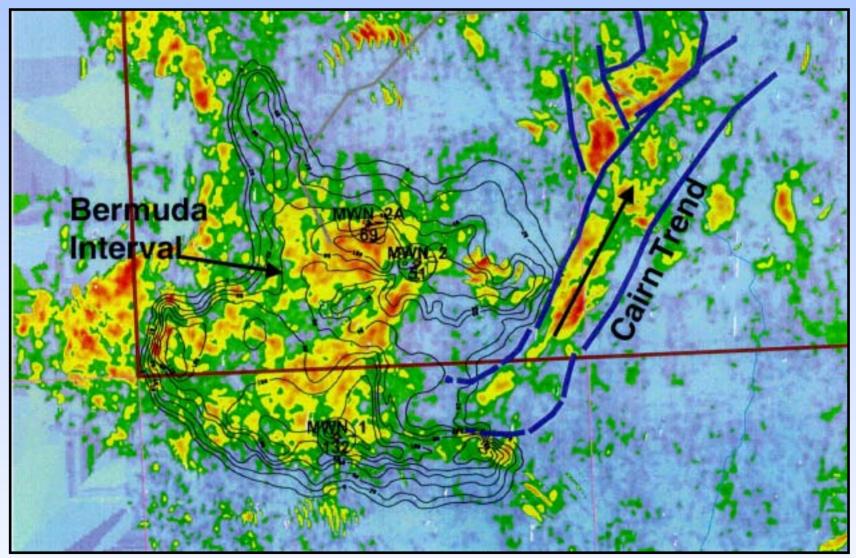
Figure 10

Seismic Data Status

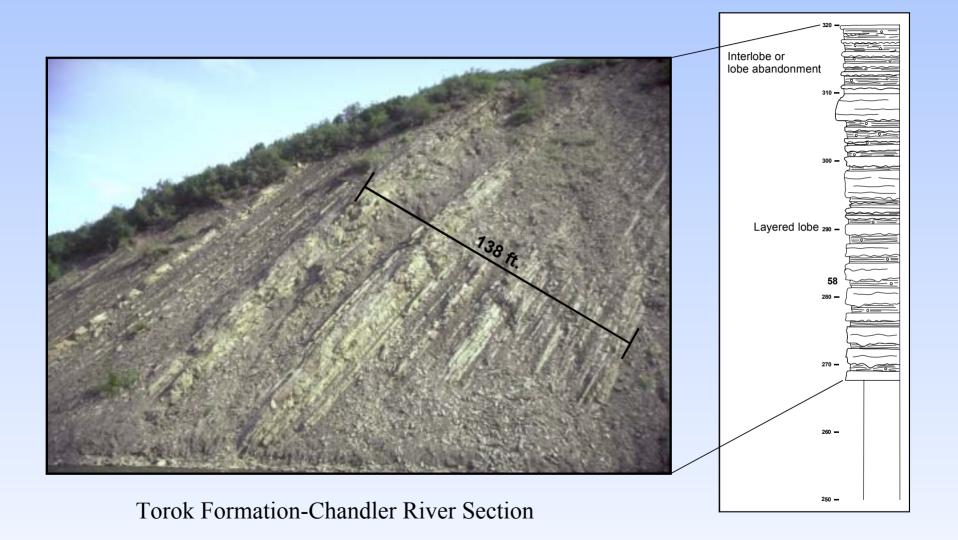
1990 - 2001



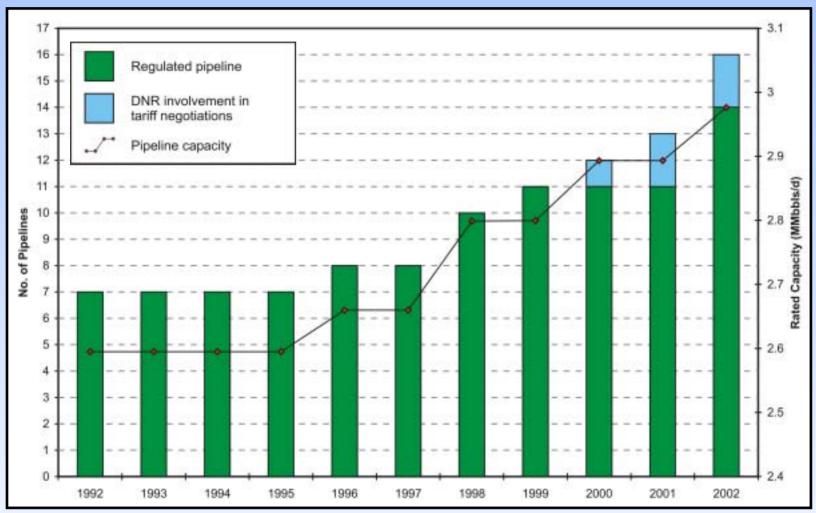
C35-T4.1 Window Far Offset Maximum Amplitude



Layered lobe deposits consisting of waning flow high-density turbidites

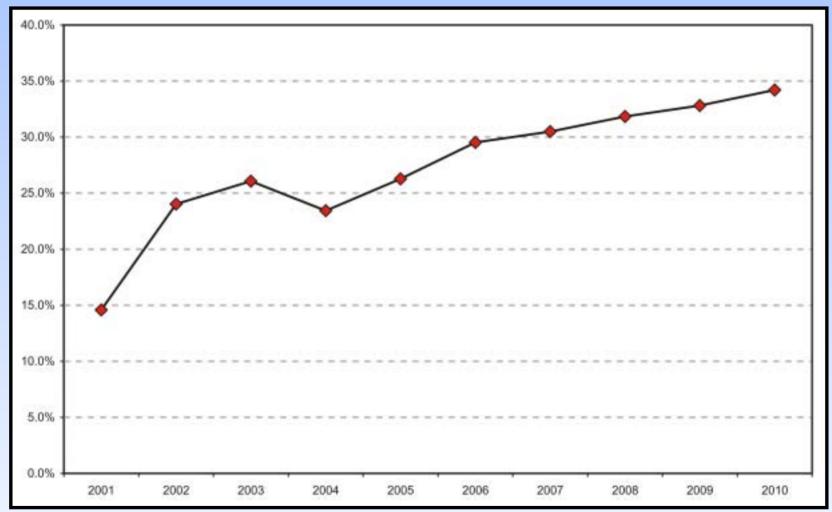


Alaska Regulated Pipelines



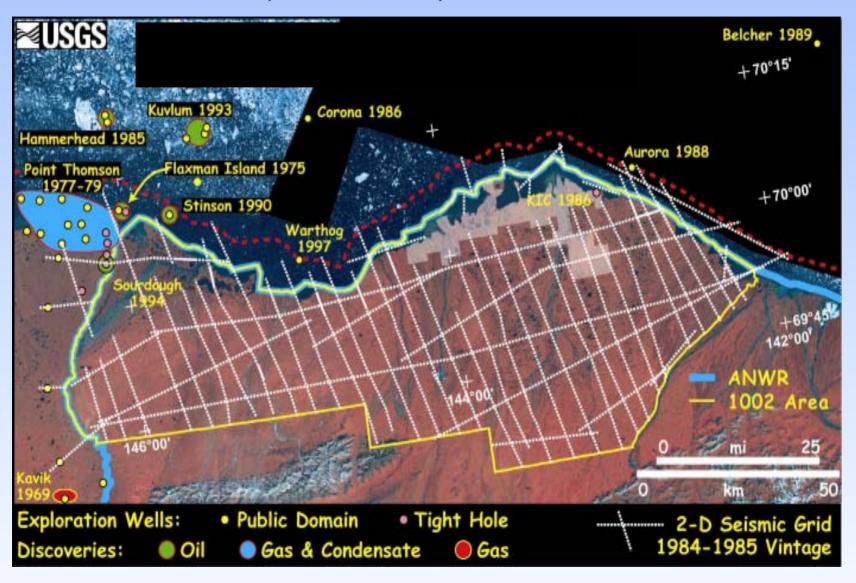
Source: Division of Oil and Gas, January 2002

Projected Pipeline Tariffs as a Percent of ANS Wellhead Price

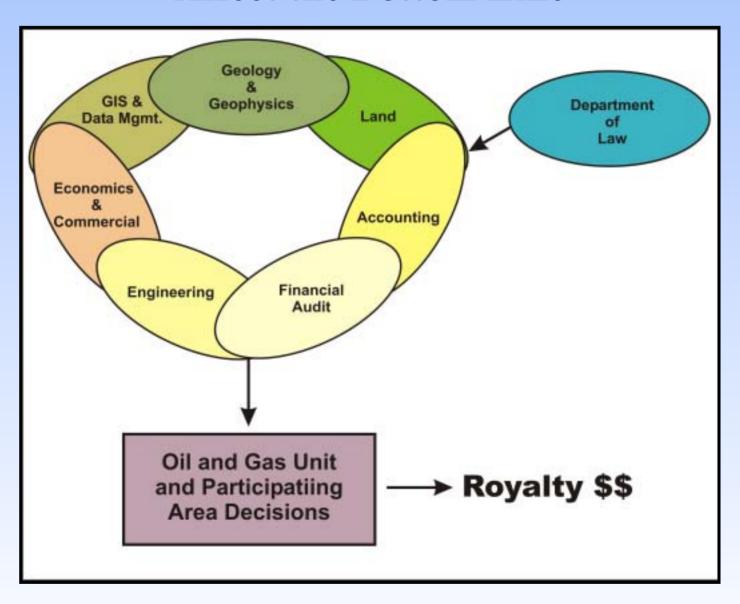


Source: DOR, Revenue Sources Book, Fall 2001

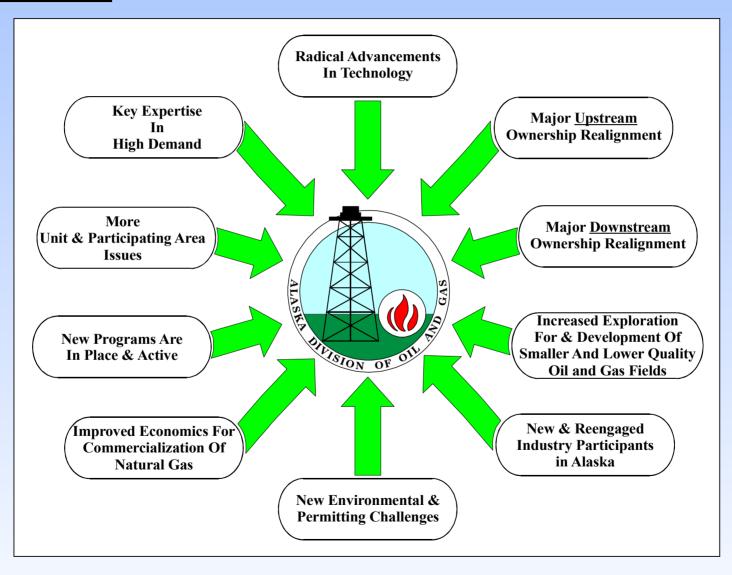
ANWR 1002 Area Wells, Discoveries, & Seismic Data



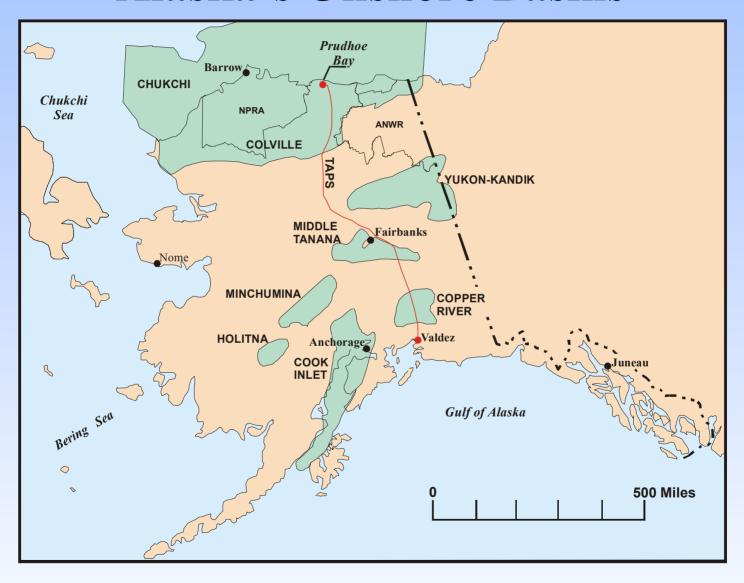
Division of Oil & Gas Organization Links Affect the Bottom Line



Recent Dynamic Changes in Alaska's Oil and Gas Business **REQUIRE** a Transformation of the Division of Oil and Gas



Alaska's Onshore Basins



End